

In the Claims:

Please cancel claims 1-11.

Please add the following new claims ²⁷⁻⁶⁰12-45:

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27 ²⁷12. (New) A packet data service access monitor for a wireless communication system, comprising:

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a packet authentication center (PAC) configured to maintain a packet service profile for each of a plurality of mobile devices in the wireless communication system; and

an access control server (ACS) communicatively coupled with the PAC, the ACS configured to manage packet data services for the plurality of mobile devices based, at least in part, on their respective packet service profiles.

28 ²⁸13. (New) The packet data service access monitor of claim ²⁷12, wherein the PAC and the ACS communicate over an Internet protocol (IP)-based communication link.

29 ²⁹14. (New) The packet data service access monitor of claim ²⁷12, wherein the ACS uses the packet service profiles to authenticate mobile devices in the plurality of mobile device.

30 ³⁰15. (New) The packet data service access monitor of claim ²⁷12, the wireless communication system comprising a plurality of bearers associated with different packet data services, wherein the ACS provides bearer control and mobility management for the respective mobile devices.

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31 16. (New) A wireless communication system, comprising:

a packet data carrier;

a plurality of mobile devices configured to communicate packet data over the packet data carrier;

a base station configured to communicate with the respective mobile devices over the packet data carrier; and

a packet data service access monitor, the packet data service access monitor comprising

a packet authentication center (PAC) configured to maintain a packet service profile for each of the plurality of mobile devices, and

an access control server (ACS) communicatively coupled with the PAC and the basestation, the ACS configured to manage packet data services for the plurality of mobile devices based, at least in part, on their respective packet service profiles.

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32 17. (New) The wireless communication system of claim 16, wherein the ACS and the basestation communicate over an Internet protocol (IP)-based communication link.

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33 18. (New) The wireless communication system of claim 16, wherein the packet data includes packetized voice data.

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34 19. (New) The wireless communication system of claim 16, wherein the ACS is configured to track and maintain a session profile for each packet data communication involving a respective mobile device.

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35 20. (New) The wireless communication system of claim 10, wherein the packet data carrier comprises a plurality of bearers associated with a plurality of packet data services, and wherein the mobile devices are configured to use the plurality of bearers to access the plurality of packet data servers.

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36 36 21. (New) The wireless communication system of claim 20, wherein the mobile devices are configured to switch from a first packet data service associated with a first bearer to a second packet data service associated with a second bearer, and wherein the ACS is configured to manage handoffs of the respective mobile devices from the first bearer to the second bearer.

37 37 22. (New) A communication system employing packetized communications for voice and data transmissions, the communication system comprising:

a code division multiple access wireless communication network having a mobile station and a base transceiver station configured to support wireless packetized communications therebetween;
an access control server in communication with the base transceiver station; and
packet service means, within the access control server, for servicing the wireless packetized communications.

38 38 23. (New) The telecommunications system of claim 22, further comprising:
a mobile services switching center in communication with the base transceiver station, the mobile services switching center servicing circuit-switched communications with the mobile station within the code division multiple access communication network.

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24. (New) The communication system of claim 23, wherein the circuit-switched communications with the mobile services switching center comprise voice only communications.

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25. (New) The communication system of claim 23, further comprising a home location register (HLR) in communication with the mobile services switching center.

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26. (New) The communication system of claim 23, further comprising a migratory interface to enable synchronization between the access control server and the mobile services switching center.

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27. (New) The communication system of claim 22, wherein the packet service means within the access control server services packet-switched data only communications with the mobile station within the code division multiple access communication network.

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28. (New) The communication system of claim 22, wherein the access control server is an Internet Protocol (IP) entity comprising means therein for setting up and maintaining at least one packet data session.

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29. (New) The communication system of claim 22, further comprising a Packet Authentication Center (PAC) in communication with the access control server.

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30. (New) The communication system of claim 22, wherein the PAC contains subscriber profiles for authentication and authorization of packet data.

46 ⁴⁶ 31. (New) The communication system of claim ²⁷22, further comprising a packet data service network (PDSN) in communication with the base transceiver station.

47 ⁴⁷ 32. (New) The communication system of claim ⁴⁶31, further comprising a home agent unit (HA) and an authorization, authentication, and account unit (AAA) in communication with the PDSN.

48 ⁴⁸ 33. (New) The communication system of claim ⁴⁶31, wherein the PDSN is in communication with the base transceiver station via a packet control function.

49 ⁴⁹ 34. (New) The telecommunication system of claim ³⁷22, further comprising a packet data service network (PDSN) and an authorization, authentication, and accounting unit (AAA) in communication with the access control server.

50 ⁵⁰ 35. (New) The communication system of claim ³⁷22, wherein the access control server maintains and updates a subscriber packet service subscription profile and actual packet session characteristics.

51 ⁵¹ 36. (New) The communication system of claim ³⁷22, wherein the access control server is responsible for bearer control and mobility management associated with packet services.

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§ 37. (New) A method of mobile communication employing a mobile device, the mobile device configured for circuit switched communication and packet data communication in a wireless communication system comprising a circuit switched network and a packet data network, the method comprising:

generating a registration request at the mobile device, the registration request comprising circuit switched specific parameters and packet data specific parameters;

generating a registration message based on the circuit switched specific parameters in the registration request;

transmitting the registration message to the circuit switched network;

authenticating the mobile device in the circuit switched network based on the registration message;

generating an authentication message from the packet data specific parameters in the registration request;

transmitting the authentication message to the packet data network; and

authenticating the mobile device in the packet data network based on the authentication message.

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§ 38. (New) The method of claim 37, further comprising

the mobile device sending a packet data session request to the packet data network;

the packet data network authorizing the packet data session request based on a packet service profile associated with the mobile device;

the mobile device accessing a traffic channel in the packet data network; and

the mobile device opening an R-P connection over the traffic channel for the packet data session.

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39. (New) The method of claim 38, further comprising storing information related to the packet data session request and storing a quality of service profile for the packet data session.

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40. (New) The method of claim 38, further comprising notifying the circuit switched network that a packet data session is active for the mobile device in the packet data network.35.

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41. (New) The method of claim 38, further comprising:
receiving an incoming circuit switched communication through the circuit switched network;
the circuit switched network requesting that the mobile device accept the circuit switched communication; and

the mobile device accessing a traffic channel in the circuit switched network in order to accept the circuit switched communication.

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42. (New) The method of claim 41, further comprising notifying the packet data network that the mobile device is engaged in a circuit switched communication in the circuit switched network.

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43. (New) A method for providing packetized communications within a telecommunications system having a Mobile Services Switching Center (MSC), the method comprising:

transceiving a packetized communication between a mobile station and a base transceiver station; and

processing, by an access control server within the telecommunications system, the packetized communication, the access control server being connected to the base transceiver station to transceive the packetized communication therebetween, the packetized communication bypassing the MSC.

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44. (New) The method of claim 43, wherein the transceiving step comprises:

transmitting, by the mobile station, the packetized communication to the base transceiver station; and

forwarding, by the base transceiver station, the packetized communication to the access control server, the packetized communication bypassing the MSC.

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45. (New) The method of claim 43, wherein the transceiving step comprises:

receiving, at the access control server, the packetized communication; and

forwarding, by the access control server, the packetized communication to the base transceiver station, the packetized communication bypassing the MSC.